

Title (en)

DUAL ANTAGONIST FOR TNF-ALPHA AND IL-21 FOR PREVENTING AND TREATING AUTOIMMUNE DISEASES

Title (de)

DOPPELANTAGONIST FÜR TNF-ALPHA UND IL-21 ZUR VORBEUGUNG UND BEHANDLUNG VON AUTOIMMUNERKRANKUNGEN

Title (fr)

ANTAGONISTE DOUBLE POUR LE TNF-ALPHA ET L'IL-21 DANS LA PRÉVENTION ET LE TRAITEMENT DE MALADIES AUTO-IMMUNES

Publication

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Application

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Abstract (en)

[origin: EP2548893A2] The present invention relates to TNFR2-IL21R fusion protein acting as a double- antagonist to TNF-alpha (\pm) and IL-21. The composition containing the double antagonist to TNF- \pm and IL-21 (TNFR2-IL21R fusion protein), known as major causes of autoimmune rheumatoid arthritis, one of autoimmune diseases, can reduce the secretion of inflammatory cytokine, increase the secretion of anti-inflammatory cytokine, and suppress the differentiation of osteoclasts better than single proteins such as TNFR2-Fc and IL21R-Fc. The TNFR2-IL21R fusion protein of the present invention has not only excellent treatment effect on arthritis in CIA mouse model not also excellent treatment effect on autoimmune rheumatoid arthritis by increasing the expression of Treg, the immune suppressive cells. Therefore, the TNFR2-IL21R fusion protein of the present invention can be effectively used as an active ingredient for the composition for the prevention and treatment of autoimmune disease.

IPC 8 full level

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